

FIG. 1

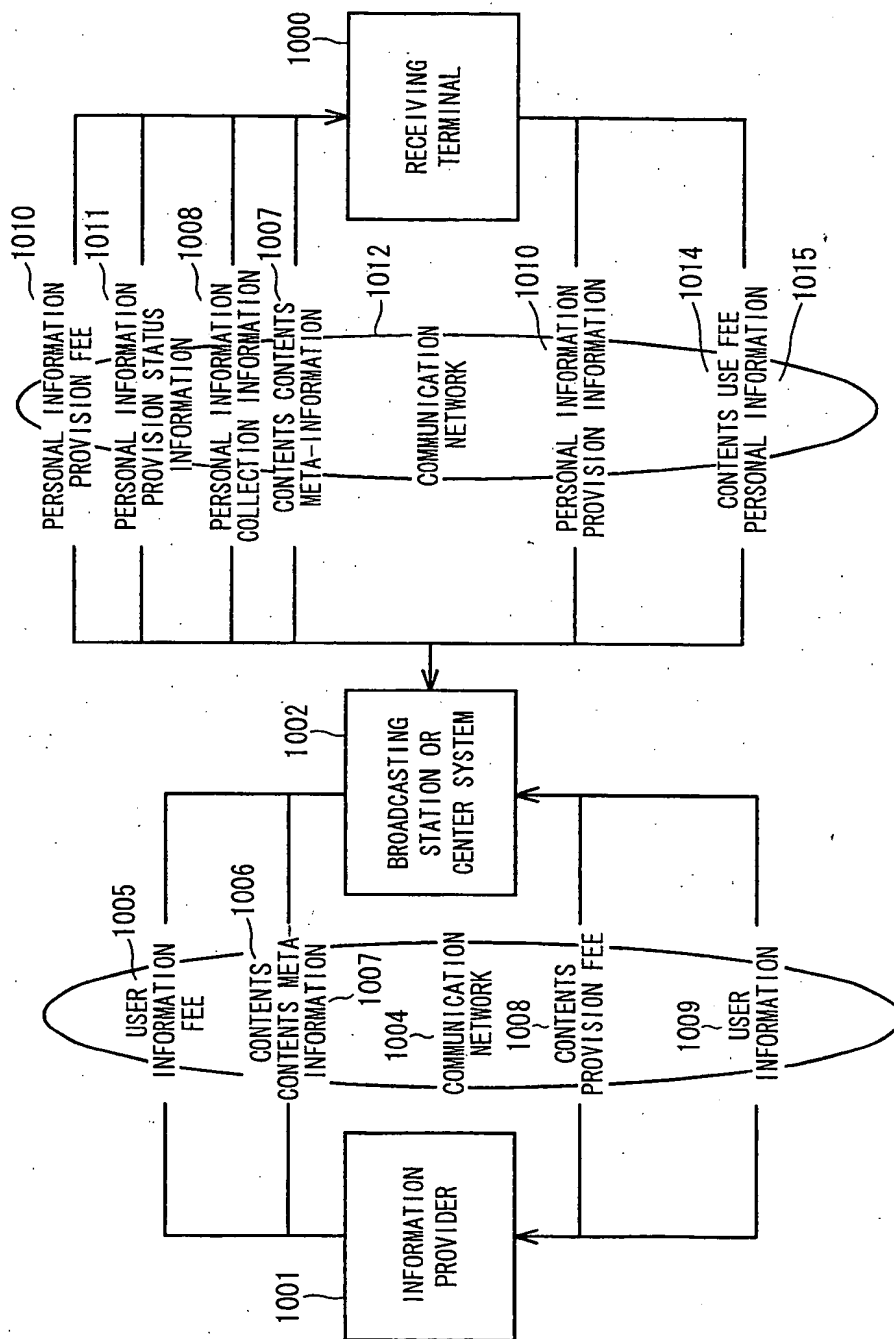
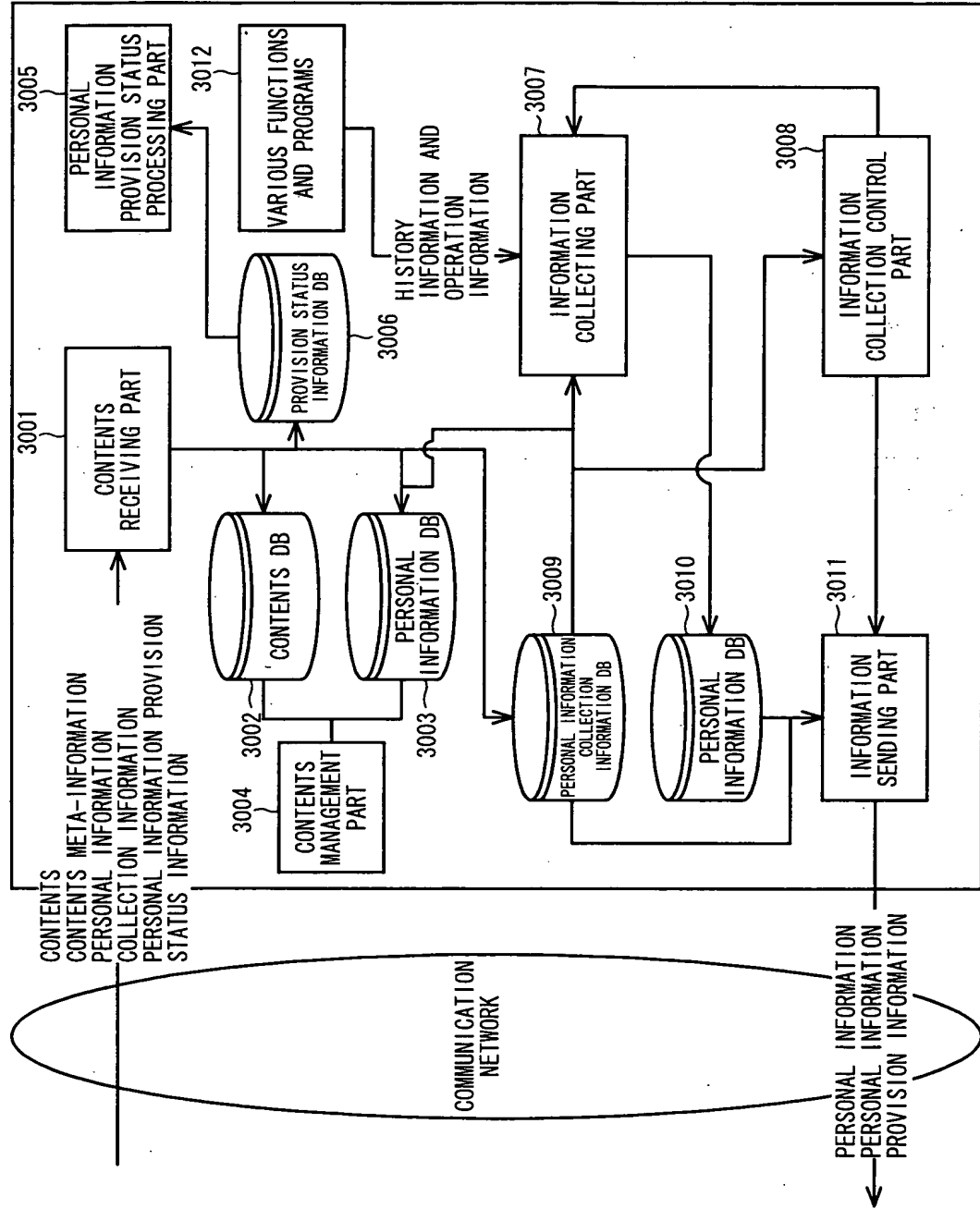




FIG. 3



**FIG. 4**

ATTRIBUTE NAME	ATTRIBUTE VALUE
CONTENTS ID	C00001
STORAGE LOCATION	c:\%contents\C00001
CONTENTS META INFORMATION ID	M00001

EXAMPLE OF EMBODYING A CONTENTS DB

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FIG. 5

ATTRIBUTE NAME	ATTRIBUTE VALUE
CONTENTS ID	C00001
CONTENTS NAME	STORAGE CONTENTS A00001
CONTENTS META INFORMATION ID	M00001
CONTENTS SIZE	10Kbyte
CONTENTS VALIDATING START TIME	2001/01/01 13:00
CONTENTS VALIDATING END TIME	2001/01/31 13:00
CONTENTS DISCARD TIME	2001/02/01
CONTENTS SENDING START TIME	2000/12/30 14:00
CONTENTS SENDING END TIME	2000/01/01 13:00
CONTENTS TARGET USER	OVER 20 YEARS OF AGE
HISTORY TARGET USER	OVER 20 YEARS OF AGE
GENRE	SPORTS NEWS
CONTENTS DESCRIPTION	PROFESSIONAL BASEBALL MEMBER LIST
STORAGE LOCATION IN RECEIVER	DEPENDENT ON TERMINAL
STORAGE METHOD IN RECEIVER	DEPENDENT ON TERMINAL
COPYRIGHT INFORMATION	PRESENT
COPYRIGHT HOLDER	"A" SPORTS PUBLISHING COMPANY
CONTENTS PROVIDER	"A" SPORTS PUBLISHING COMPANY

NOT  
REQUIRED  
WITH  
RECEIVER

EXAMPLE OF EMBODYING A CONTENTS META-INFORMATION DB

**FIG. 6**

ATTRIBUTE NAME	ATTRIBUTE VALUE
SCHEDULE ID	S00001
SENDING START TIME	2001/01/01 13:00
SENDING END TIME	2001/01/01 13:05
BANDWIDTH	1Kbyte
REPETITION COUNT	THREE TIMES OR MORE
TARGET CONTENTS	CONTENTS OF "A" SPORTS PUBLISHING COMPANY
NETWORK ID	0x01
TRANSPONDER ID	0x02
CANNEL ID	0x03

EXAMPLE OF EMBODYING A CONTENTS SENDING SCHEDULE DB 2006

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FIG. 7

ATTRIBUTE NAME	ATTRIBUTE VALUE
SCHEDULE ID	C00001
SENDING START TIME	2001/01/01 13:05
SENDING END TIME	2001/01/01 13:10
BANDWIDTH	0.5Mbps
REPETITION COUNT	THREE TIMES OR MORE
TARGET CONTENTS	PERSONAL INFORMATION COLLECTION INFORMATION OF CONTENTS OF "A" SPORTS PUBLISHING COMPANY
NETWORK ID	0x01
TRANSPONDER ID	0x02
CHANNEL ID	0x03

EXAMPLE OF EMBODYING A PERSONAL INFORMATION COLLECTION  
INFORMATION SENDING SCHEDULE DB 2005

**FIG. 8**

ATTRIBUTE NAME	ATTRIBUTE VALUE
SCHEDULE ID	CS00001
SENDING START TIME	2001/01/01 13:15
SENDING END TIME	2001/01/01 13:20
BANDWIDTH	0.5Mbps
REPETITION COUNT	THREE TIMES OR MORE
TARGET CONTENTS	USER CATEGORY (HOKKAIDO REGION)
NETWORK ID	0x01
TRANSPONDER ID	0x02
CHANNEL ID	0x03

PERSONAL INFORMATION PROVISION  
INFORMATION SENDING SCHEDULE DB.2010

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**FIG. 9**

ATTRIBUTE NAME	ATTRIBUTE VALUE
SCHEDULE ID	PS00001
SENDING START TIME	2001/01/01 13:15
SENDING DESTINATION IP ADDRESS	202.202.2.168
SENDING CONTENTS (USER INFORMATION ID)	U10001

USER INFORMATION SENDING SCHEDULE DB 2025

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*FIG. 10*

DATA STRUCTURE	BIT LENGTH
View_log_set_request	
Format_Version	8
Log_Activation_Time	40
Log_Expire_Time	40
Report_Send_Time	40
Log_Limit_Size	32
Threshold_of_Capacity	8
Target_Content_Number	16
for( i = 0 ; i < Target_Content_Number ; i++ ) {	
Type_of_Match	1
Kind_of_Match	3
Reserved	4
Uri_Length	16
for( j = 0 ; j < Uri_Length ; j++ ) {	
text_char	8
}	
}	
Signature_length	16
if( Signature_length != 0x0000 ) {	
Signature_alogorithm	16
for( j = 0 ; j < Signature_length ; j++ ) {	
signature_byte	8
}	
}	

**FIG. 11**

DATA STRUCTURE	BIT LENGTH
View_log_set_request	
Format_Version	8
Log_Activation_Time	40
Log_Expire_Time	40
Report_Send_Time	40
Log_Limit_Size	32
Threshold_of_Capacity	8
Before_Data	8
After_Data	8
Target_Content_Number	16
for( i = 0 ; i < Target_Content_Number ; i++ ) {	
Type_of_Match	1
Kind_of_Match	3
Reserved	4
Uri_Length	16
for( j = 0 ; j < Uri_Length ; j++ ) {	
text_char	8
}	
}	
Signature_length	16
if(Signature_length != 0x0000) {	
Signature_alogorithm	16
for( j = 0 ; j < Signature_length ; j++ ) {	
signature_byte	8
}	
}	

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DATA STRUCTURE	BIT LENGTH	BIT STRING NOTATION
View_log_set_request() {		
command_id	16	uimsbf
command_length	32	uimsbf
viewlog_serial_number	16	uimsbf
viewlog_control_bit	1	bslbf
Reserved	7	bslbf
if(VIEWING HISTORY START INDICATION) {		
start_JST	40	bslbf
end_JST	40	bslbf
num_targets	16	uimsbf
for (i=0; i<num_targets; i++) {		
match_condition	4	bslbf
reserved_future_use	4	bslbf
uri_length	16	uimsbf
for (j=0; j<uri_length; j++) {		
uri_text_ch	8	uimsbf
}		
}		
num_untargets	16	uimsbf
for (i=0; i<num_untargets; i++) {		
match_condition	4	bslbf
reserved_future_use	4	bslbf
uri_length	16	uimsbf
for (j=0; j<uri_length; j++) {		
uri_text_ch	8	uimsbf
}		
}		
}		
}		

FIG. 13

GENERAL FORMAT

TIME INFORMATION	40	bit
IDENTIFICATION NUMBER	8	bit
LOG LEVEL	8	bit
DATA LENGTH	16	bit
DATA	BYTE COUNT OF FOLLOWING DATA LENGTH SPECIFIED IN DATA LENGTH	

FIG. 14

TIME INFORMATION	40	bit	
IDENTIFICATION NUMBER	8	bit	FIXED
LOG LEVEL	8	bit	FIXED
DATA LENGTH	16	bit	FIXED (140)
Last turning channel (Network ID)	16	bit	
Last turning channel (TS ID)	16	bit	
Last turning channel (Service ID)	16	bit	
USER IDENTIFICATION NUMBER	8	bit	
URL	128	Byte	
Modify Time	40	bit	

*FIG. 15*

TIME INFORMATION	40 bit	
IDENTIFICATION NUMBER	8 bit	FIXED
LOG LEVEL	8 bit	FIXED
DATA LENGTH	16 bit	BYTE LENGTH OF FOLLOWING DATA
SYSTEM IDENTIFICATION NUMBER	8 bit	
MESSAGE LENGTH	16 bit	BYTE LENGTH OF FOLLOWING DATA
MESSAGE	Byte	

FIG. 16

TIME INFORMATION	40 bit	
IDENTIFICATION NUMBER	8 bit	FIXED
LOG LEVEL	8 bit	FIXED
DATA LENGTH	16 bit	BYTE LENGTH OF FOLLOWING DATA
SYSTEM IDENTIFICATION NUMBER	8 bit	
MESSAGE LENGTH	16 bit	BYTE LENGTH OF FOLLOWING DATA
REMOTE CONTROL OPERATIONS	Byte	



**FIG. 17**

DATA STRUCTURE	BIT LENGTH	BIT STRING NOTATION
ViewLog0 {		
view_log_status	16	uimsbf
report_terminal_item_number	32	uimsbf
for (i=0; i<report_terminal_item_number; i++) {		
user_id	8	uimsbf
record_time_JST	40	bslfb
target_category	8	uimsbf
if(target_category is contents reference) {		
target_text_length	16	uimsbf
for(j=0; j<target_text_length; j++) {		
target_text_ch	8	uimsbf
}		
if(contents storing update time are referred to) {		
modify_time_JST	40	bslbf
}		
}else if(viewing history start instruction is updated)		
viewlog_serial_number	16	uimsbf
}		
referer_category	8	uimsbf
if(referer_category is contents reference) {		
referer_length	16	uimsbf
for(j=0; j<referer_length; j++) {		
referer_text_ch	8	uimsbf
}		
}else if(referer category is electronic mail) {		
referer_message_id_length	8	uimsbf
for(j=0; j<referer_message_id_length+j++) {		
referer_message_id_text_ch	8	uimsbf
}		
}		
}		

**FIG. 18**

ATTRIBUTE NAME	ATTRIBUTE VALUE
CUSTOMER ID	U00001
CONTRACT DATE	2001/01/01
SERVICE PROVISION START DATE	2001/01/01
CONTRACTOR NAME	TARO TANAKA
ZIP CODE	111-0011
ADDRESS	1-1-1, EDO, EDOGAWA-KU, TOKYO
TELEPHONE NO.	03-333-3333
FAMILY STRUCTURE	COUPLE AND CHILD
NUMBER OF FAMILY CUSTOMER ID	3
FAMILY CUSTOMER ID	U00001-01
FAMILY CUSTOMER ID	U00001-02
FAMILY CUSTOMER ID	U00001-03
RECEIVER ID	R0001
LAST MODIFICATION DATE	2000/12/20

CUSTOMER DB (CONTRACT INFORMATION)

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**FIG. 19**

ATTRIBUTE NAME	ATTRIBUTE VALUE
FAMILY CUSTOMER ID	U00001-01
CUSTOMER ID	U00001
NAME	TARO TANAKA
BIRTH DATE	1970/03/01
OCCUPATION	EMPLOYEE
WORK PLACE	TRADING COMPANY
E-mail address	taro@tanaka.ne.jp
HOBBY	SPORTS WATCHING
LAST MODIFICATION DATE	2000/12/20

CUSTOMER DB (PERSONAL INFORMATION)

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*FIG. 20*

ATTRIBUTE NAME	ATTRIBUTE VALUE
RECEIVER ID	R0001
MANUFACTURER NAME	"ASAHI" ELECTRIC CORPORATION
MODEL NUMBER	A-TU001
PRODUCT NUMBER	A000001
STORAGE CAPACITY	30GB
CUSTOMER ID	U00001
LAST MODIFICATION DATE	2000/12/20

RECEIVE DB

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**FIG. 21**

ATTRIBUTE NAME	ATTRIBUTE VALUE
INFORMATION PROVIDER ID	IP00001
CONTRACT NUMBER	KB00001
CONTRACT DATE	2001/01/01
CONTENTS PROVISION START DATE	2001/01/01
CONTENTS PROVISION END DATE	2001/01/01 13:00
CONTRACTOR NAME	"AB" PUBLISHING COMPANY
ZIP CODE	111-0011
ADDRESS	1-1-1, EDO, EDOGAWA-KU, TOKYO
TELEPHONE NUMBER	03-3333-3333
CONTENTS PROVISION FORM	NETWORK
CONTENTS PROVISION TIMING	13:00 EVERY DAY
USER INFORMATION PROVISION	PROVIDED
USER INFORMATION PROVISION FORM	NETWORK
USER INFORMATION PROVISION CONTENTS	ACCESS COUNT
LAST MODIFICATION DATE	2000/12/20

INFORMATION PROVIDER DB

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**FIG. 22**

ATTRIBUTE NAME	ATTRIBUTE VALUE
USER INFORMATION	R0001
INFORMATION FORMAT	COUNT
COUNT START TIME	2001/01/01 00:00
COUNT END TIME	2001/01/02 00:05
TARGET USER	ALL
URI	http://ab.co.jp/index.html
COUNT VALUE	300
LAST UPDATE DATE	2001/01/02 00:05

USER INFORMATION DB

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**FIG. 23**

ATTRIBUTE NAME	ATTRIBUTE VALUE
USER INFORMATION	R0002
INFORMATION FORMAT	TRANSITION
COUNT START TIME	2001/01/01 00:00
COUNT END TIME	2001/01/02 00:05
TARGET USER	ALL
IMMEDIATELY PRECEDING URI	http://cd.co.jp/link/index.html
URI	http://ab.co.jp/index.html
COUNT VALUE	20
LAST UPDATE DATE	2001/01/02 00:05

USER INFORMATION DB (2)

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**FIG. 24**

ATTRIBUTE NAME	ATTRIBUTE VALUE
FAMILY CUSTOMER ID	U00001-01
CONTRACT NUMBER	KC00011
CENTER PROCESSING	OK
CENTER SPECIFIC DATA	NO
CENTER COMPILED DATA	YES
DISCLOSURE TO THIRD PARTIES	YES
DISCLOSURE OF SPECIFIC DATA TO THIRD PARTIES	NO
DISCLOSURE OF COMPILED DATA TO THIRD PARTIES	YES
DISCLOSURE START TIME	2001/01/01 00:00
DISCLOSURE END TIME	2001/01/31 00:00
DATA EFFECTIVENESS END TIME	2001/02/28 00:00
DISCLOSURE OF PERSONAL DATA TO THIRD PARTIES	NO
DISCLOSURE CONTENTS OF PERSONAL DATA TO THIRD PARTIES	
LAST UPDATE TIME	2001/01/02 00:05

PERSONAL INFORMATION PROVISION INFORMATION

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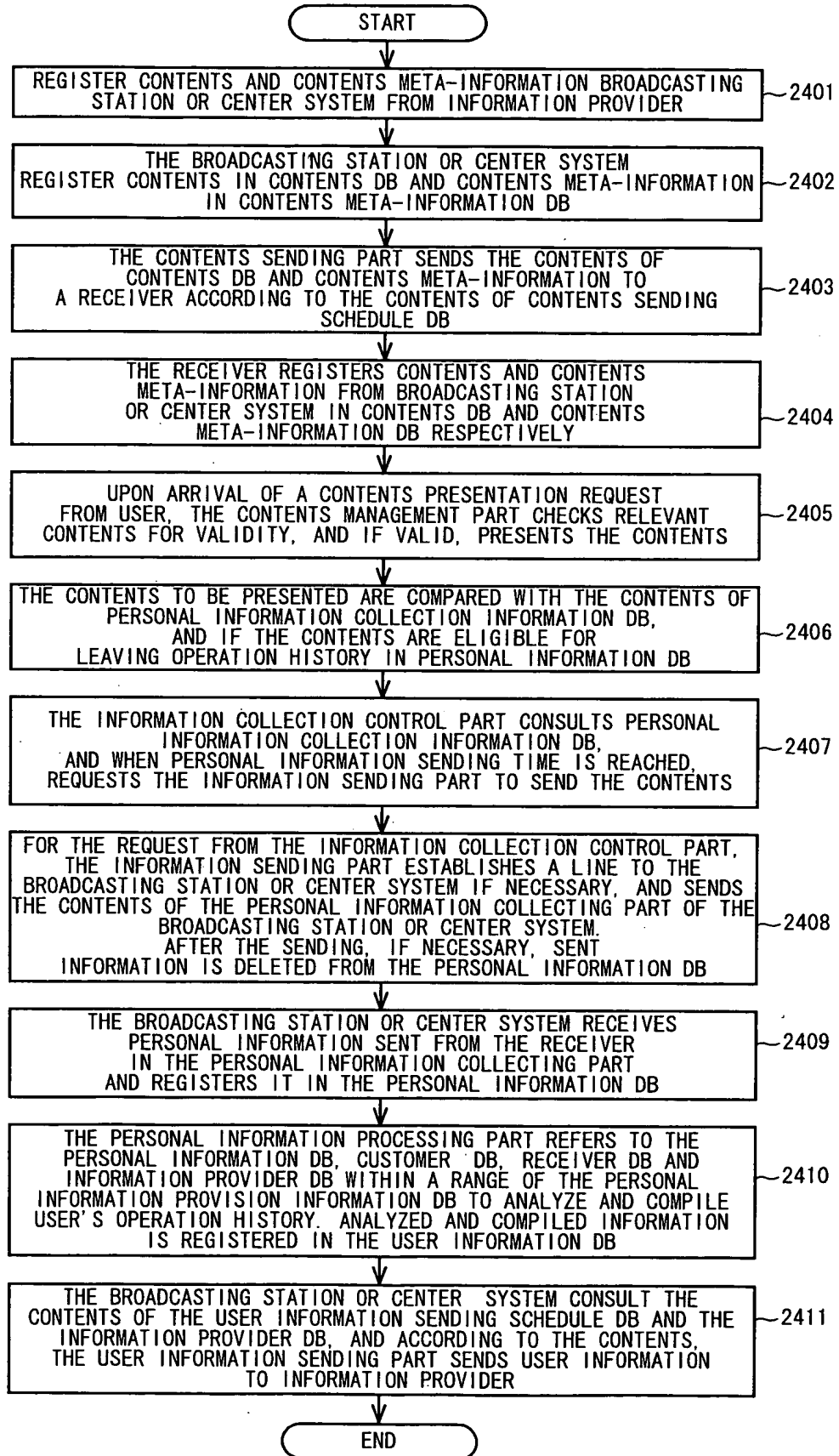
**FIG. 25**

ATTRIBUTE NAME	ATTRIBUTE VALUE
FAMILY CUSTOMER ID	U00001-01
CONTRACT NUMBER	KC00011
DATA TARGET START TIME	2001/01/01 00:00
DATA TARGET END TIME	2001/01/15 00:00
NUMBER OF DISCLOSURES TO THIRD	10
LAST UPDATE TIME	2001/01/02 00:05

PERSONAL INFORMATION PROVISION STATUS INFORMATION

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FIG. 26



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